

FILE NOTATIONS

Entered in NID File ✓.....
Location Map Pinned
Card Indexed ✓.....

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed ✓.....
..... WW..... TA.....
GW..... OS..... BA.....

Location Inspected
Bond released
State or Fee Land ..

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
Log..... CCLog..... Others.....

CAD
04/22/92

RECEIVED
UNITED STATES

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1425.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-9825B	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Carmack Drilling Co. West Rangely Operating Company Incorporated		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 592-25 Rd. GST. Co. 81501 P.O. Box 4935 Midland Texas 79701		8. FARM OR LEASE NAME Dunlap Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 866' FWL - 902' FSL Section 17, T6S, R24E, S.L.B. & M.		9. WELL NO. #8	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 Miles from Vernal, Utah		10. FIELD AND POOL, OR WILDCAT WILDCAT	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T6S, R24E, S.L.B & M.	
16. NO. OF ACRES IN LEASE 1280		12. COUNTY OR PARISH Uintah	
17. NO. OF ACRES ASSIGNED TO THIS WELL		13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION* 1. NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 1000'	
20. ROTARY OR CABLE TOOLS Rotary		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5300'	
22. APPROX. DATE WORK WILL START* January 1979		23. PROPOSED CASING AND CEMENTING PROGRAM	

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	24#	40'	Cement to surface
6 1/4"	4 1/2"	10 1/2	1000'	

*See attached sheets.

In the event this well does not encounter Hydro Carbons the following plugging procedure will be followed, 30 bags of cement in bottom, fill to bottom of the surface casing with cuttings and dirt from pit. Fill to the surface with cement install regulation dry hole marker.

In case production is established the drilling rig will be released to the location and another unit will be brought in to make production test, run casing, and install production equipment. At this time a Sundry Notice with surface use plan for production equipment and facilities will be submitted.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Cliff A. [Signature] TITLE VIC pres. DATE 10-12-78
(This space for Federal or State office use)

PERMIT NO. WT Martin APPROVAL DATE MAY 31 1979
APPROVED BY WT Martin TITLE ACTING DISTRICT ENGINEER
CONDITIONS OF APPROVAL, IF ANY:

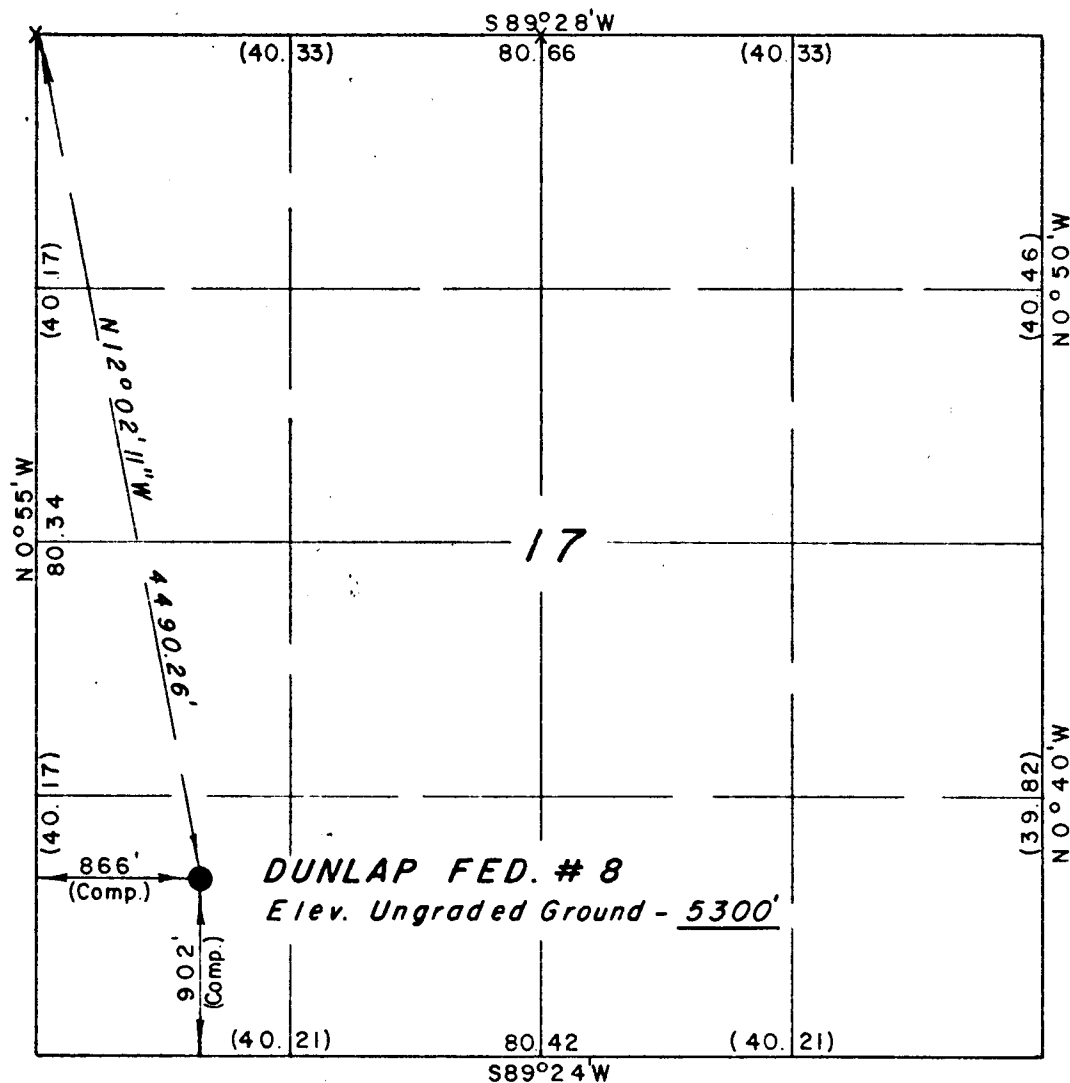
CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY
NOTICE OF APPROVAL
See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING
DRILLING AND COMPLETION APPROVED
SUBJECT TO ROYALTY (NTL-4)

State OKG

PROJECT

Well location, *DUNLAP FED. #8*, located as shown in the SW 1/4 SW 1/4 Section 17, T6S, R24E, S.L.B. & M. Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF

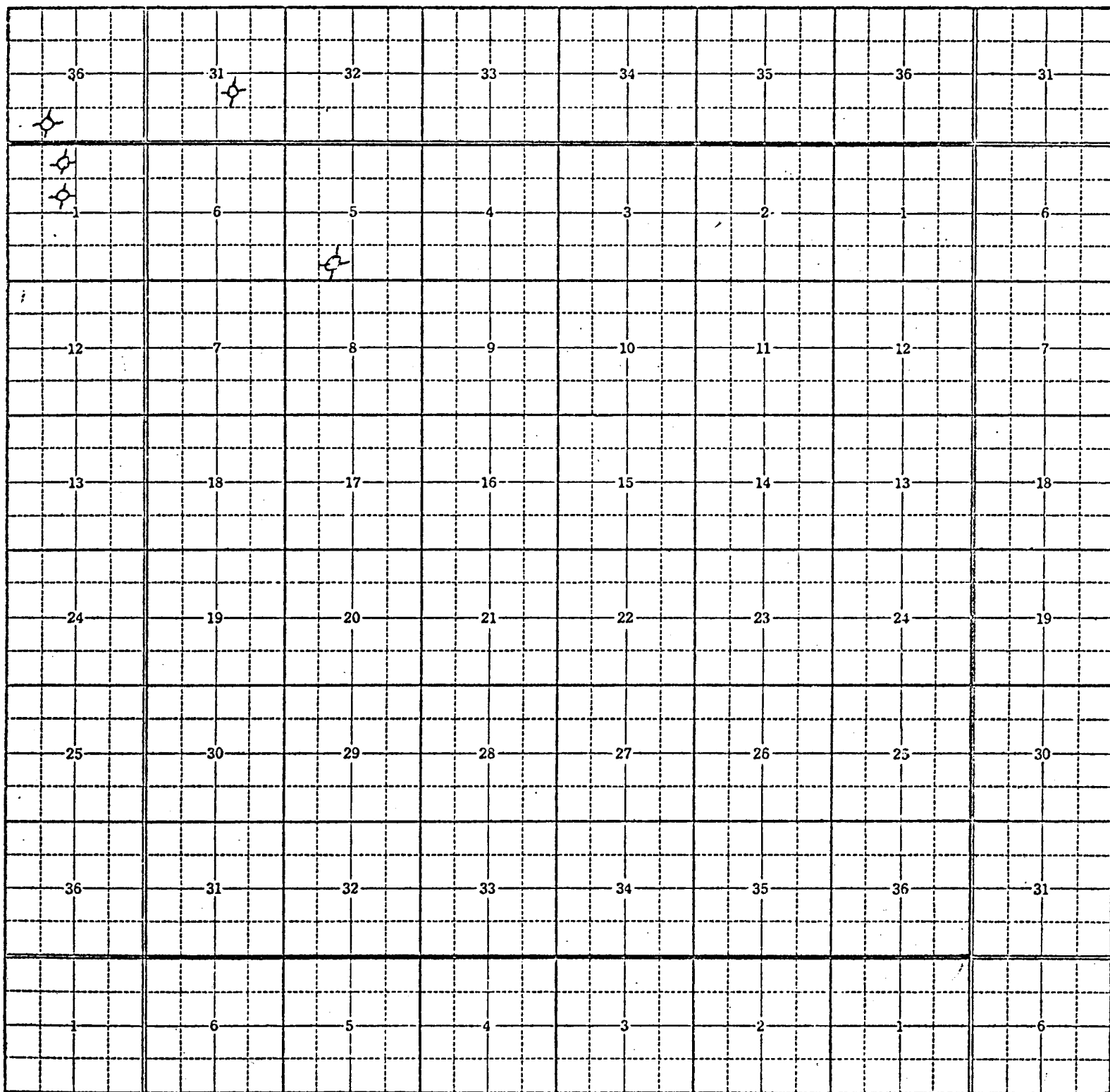
REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UTAH ENGINEERING & LAND SURVEYING
 P.O. BOX Q - 110 EAST - FIRST SOUTH
 VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	11/22/78
PARTY	SS MS JM RP	REFERENCES	GLO Plat
WEATHER	Clear / Warm	FILE	WEST RANGELY

Township 6S, Range 24E, County Uintah, State Utah

Island Township Plat



KINTZEL BLUE PRINT CO., CASPER, WYOMING

Approx. Location of Abandoned Wells

WEST RANGELY OPERATING CO. INC.
PROPOSED LOCATION
DUNLAP FED. #8

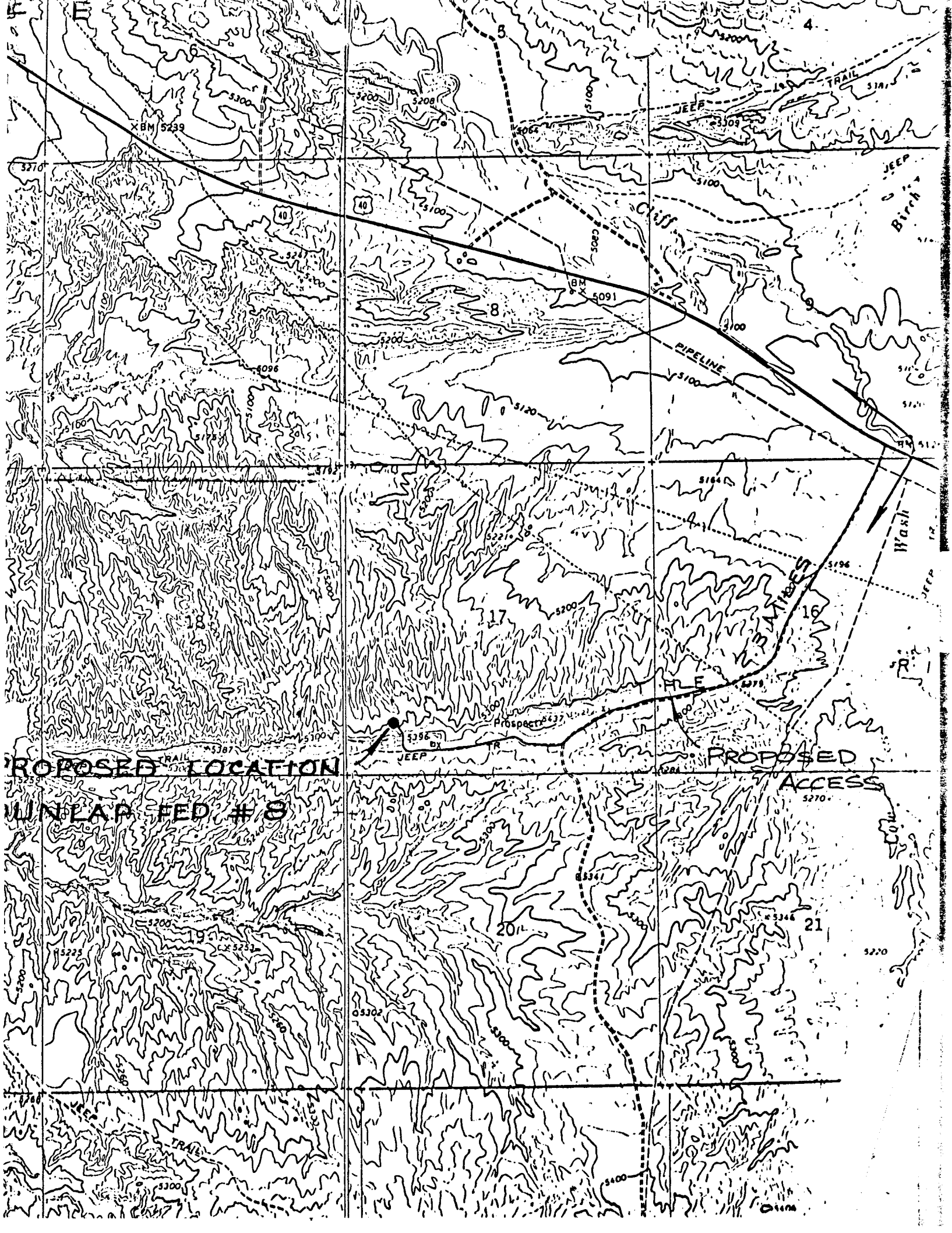
TOPO.

MAP "A"



SCALE 1" = 4 MI.





PROPOSED LOCATION

UNLAP FED # 8

PROPOSED ACCESS

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-9825BOperator CARMACK DRILLING Co.
~~West Rangely Operating Company~~Well No. 8Location 866' FWL & 902" FSL SW SW Sec. 17 T. 6S R. 24ECounty Uintah State Utah Field WildcatStatus: Surface Ownership Public Minerals FederalJoint Field Inspection Date Waived by BLM and USGSPre-drill Meeting January 23, 1979

Participants and Organizations:

George Diwachak U.S. Geological Survey, Salt Lake CityCory Bodman Bureau of Land Management, VernalClyde Aylesworth West Rangely Operating CompanyStacy Stewart Uintah Engineering

_____	_____
_____	_____
_____	_____
_____	_____

Related Environmental Analyses and References:

(1) Unit Resource Analysis - Bonanza Planning Unit - BLM - Vernal

(2)

Analysis Prepared by:

George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date: February 1, 1979

*1000' hole
Time for activity under
No surface disturbance
Redab outlined to show
areas disturbed by
moving a minor road
upgrade across road
w/ prod. well.*

Noted - G. Diwachak

Proposed Action:

On January 4, 1979, West Rangely Operating Company filed an Application for Permit to Drill the No. 8 exploratory well, a 1000-ft. oil test of the Mancos Shale Formation; located at an elevation of 5300 ft. in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17, T. 6S., R. 24E. on Federal mineral lands and Public surface; lease No. U-9825B. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

At the pre-drill meeting, it was agreed upon by all parties that no drill pad nor access road would be constructed. Due to the shallow depth of drilling (1000 ft.), the operator proposes to utilize a seismic type, truck mounted drilling rig. The operator proposes to use a mud tank to contain all drilling fluids, cuttings, and waste, eliminating the need for a reserve pit. No access road would be constructed. A bulldozer may be used, however, to assist the drill truck over rugged terrain. In the event that production is deemed possible and profitable, the operator has agreed to submit proper plans for the construction of production facilities and maintenance/access roads. Archaeological and endangered species clearances would then be necessary.

The anticipated starting date is March or April, 1979 depending on snow conditions. Duration of drilling activities would be about 10 days.

Location and Natural Setting:

The proposed drillsite is approximately 15 miles east of Vernal, Utah, the nearest town. A good road runs to within 2.3 miles of the location. This well is a wildcat.

Topography:

Area topography consists of canyons and ridges interlaced with numerous non-perennial drainages characteristic of the Uinta Basin.

Geology:

The surface geology is Mancos Shale. The soil is sandy clay to clay. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Minor disturbances would occur to the surface from vehicular traffic, increasing the erosional potential slightly.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases are not be anticipated.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area

are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

Drainage from the area is through non-perennial washes to the Green River.

Little erosion would be expected in the area due to surface disturbances to vegetation by vehicles. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert-shrub types.

Proposed action would disturb a minimal amount of vegetation, slightly increasing the erosional potential. Due to the type of operations proposed, there would be no need to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the BLM. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would not be required prior to approval of the proposed action.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would not be visible to passersby of the area.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would not be necessary. If the well should produce hydrocarbons appropriate plans would be submitted to the proper agencies to obtain clearances for the construction of production facilities and access roads.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Bonanza Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud tanks would contain all fluids used during the drilling operations. All trash generated during drilling operations would be trucked off the location and disposed of properly. Sewage would be handled in a portable chemical toilet.

Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

(3) No surface disturbances would be authorized for this project. All drilling waste must be contained in a mud tank type devise. A portable chemical toilet must be used for human waste. All trash should be trucked off location and disposed of properly.

Adverse Environmental Effects Which Cannot Be Avoided:

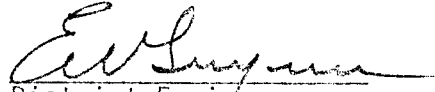
Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. The potential for fires, gas leaks, and spills of oil and water would exist. During the drilling phase of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to the river would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

Date

2/5/79



District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

GEOLOGICAL CASING AND BOPE DATA

1. Surface Formation:

Mancos Shale

2. Estimated tops of important geological markers:

Mancos Shale - surface

3. Expected Mineral-bearing Formation:

Mancos Shale - 1000'

4. Proposed Casing Program:

Surface Casing - New 7" 20.0 40' and if needed production casing.

5. Blowout Preventor:

Reagan Torus - Type K - Tested to 3000 lbs.
with fill, kill and choke lines

6. Circulating Medium:

Air

7. Auxilliary Equipment:

Kelly Cock
Float at Bit
Sub on floor with full-opening valve to be stabbed into drill pipe
when Kelly is out of string

8. Testing, Logging, and Coring Procedures:

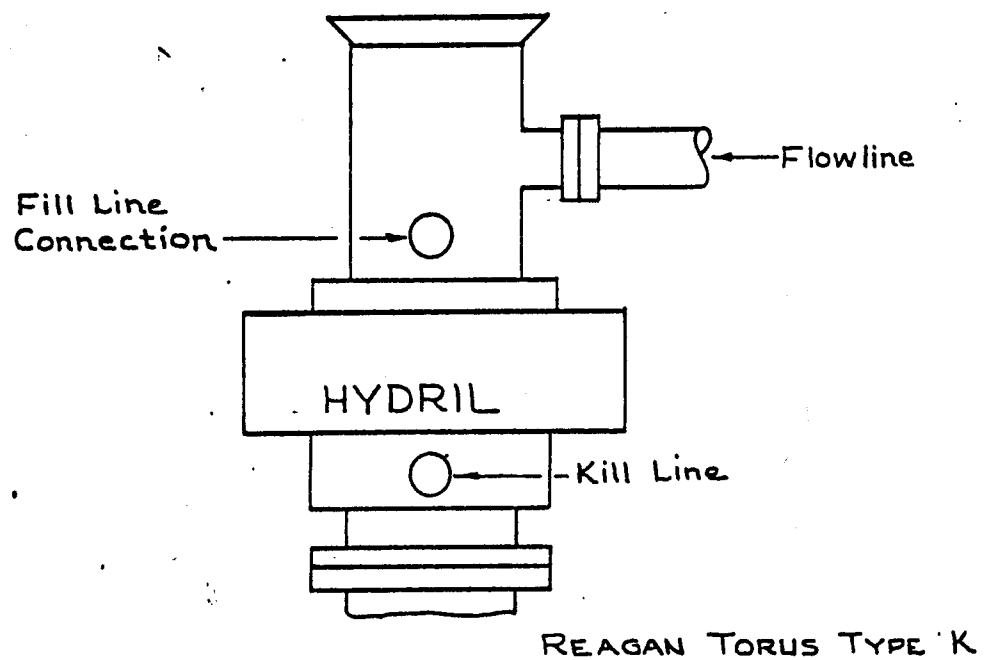
Cores - none planned
Tests - none planned
Logging - none planned

9. Anticipated Hazards:

No abnormal pressures or temeratures, hydrogen sulfide or other
drilling hazards are anticipated.

10. Anticipated starting date:

January 1, 1979



WEST RANGELY OPERATING CO.
Diagram C

WEST RANGELY OPERATING COMPANY INCORPORATED
Dunlap Federal # 8
Section 17, T6S, R24E, S.L.B. & M.

1. EXISTING ROADS

To reach West Rangely Operating Company Incorporated, well location Dunlap Federal # 8, located in Section 17, T6S, R24E, S.L.B. & M. (See attached Topographic Map "B").

Proceed East out of Vernal, Utah along U.S. Highway 40 \pm 21 miles to the point where existing improved roads will no longer be used.

There is no anticipated construction or maintainance anticipated on the above described Highway, it will meet the standards required for the hauling of equipment during the drilling of this well.

2. PLANNED ACCESS ROAD

There will be no planned access road built, existing jeep trails and other small roads in the area will be used as much as possible to gain access to this location.

There will be no major construction on any portion of the access to this location, in the event that some construction is required to gain access, it will be done with the least amount of disturbance possible to the existing ground, in the event that washes are crossed that are large enough to require some construction in order to gain access, then a bulldozer will be used to make a dry water ford, there will be no culverts installed. The bulldozer will also be used to level some areas too rough for equipment to travel on.

Any construction which is required will be restored to its original contour, as much as possible as mentioned in Item #10.

In the event that production is established, an access road will be built to facilitate an orderly flow of traffic to and from the location site. This road will be built to meet the following requirements;

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from any normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet end.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

2. PLANNED ACCESS ROAD - continued

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedence of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

3. LOCATION OF EXISTING WELLS

Located within two miles of the proposed location are five abandoned wells located in Section 5, T6S, R24E; Section 31, T5S, R24E; Section 36, T5S, R23E; and Section 1, T6S, R 23E Uintah County, Utah.

See enclosed Township Plat for approximate locations of these abandoned wells.

There are no other known wells within a two mile radius of the proposed well site. (See the Location Plat for the exact placement of the proposed well within the section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES.

There are no production facilities, gas gathering lines, injection lines, or disposal lines within the one mile radius owned or controlled by the lessee/operator.

A minimum of construction will be done on this location, a bulldozer will be used to level the pad for the truck rig which is to drill this well.

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. When all drilling activities have been completed, the location site and access will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Prior to rig release, pits will be fenced and so maintained until cleanup. If any oil is on the pit, it will be removed.

Restoration activities of these areas not necessary for operation shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lease further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10. If oil is left in the pit, overhead flagging will be installed.

In the event that production is established, plans for production facilities will be submitted to the proper agency.

5. LOCATION AND TYPE OF WATER SUPPLY

There will be no anticipated water supply, as the rig used to drill this well does not require water. Only in case of a blowout under which condition the Green River will be the water source, and will be hauled by truck to the proposed location. Roads to be used are shown on the topography map "B". The distance of the water haul will be 0.2 miles.

6. SOURCE OF CONSTRUCTION MATERIAL

This is Federal land and in the event that production is established and construction is necessary the construction materials for this location site shall be borrow materials accumulated during construction of the location site and access. No additional gravels or material from other sources are anticipated at this time, if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

A 25'x 25'x 6' pit will be dug. The well hole will be air drilled and the cuttings blown into the pit and buried. Also any produced fluids will be directed to the pit and contained there. If the pit contains fluids, it will be fenced until dry.

Garbage and other waste material will be placed in garbage cans with proper covers and hauled to disposal sites off of Federal lands.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen.

9. WELL SITE LAYOUT

The proposed well will be drilled with a seismograph type (air drilling) rig. No drill pad or cut and fill work is necessary in this type operation. An unlined 25'x 25'x 6' pit will be dug to hold cuttings and any fluid which may be encountered. Burn and trash material will be placed in garbage cans with proper covers and hauled to disposal sites off of Federal lands. There will be no living facilities on the premises as only daylight drilling will be done. Access roads to the proposed well site are shown on topography Map "B".

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

A minimum of construction will be done on this location, a bulldozer will be used to level the pad for the truck rig which is to drill this well.

As there is some topsoil on the location site, all topsoil shall be stripped stockpiled. When all drilling activities have been completed, the location site and access will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

10. PLANS FOR RESTORATION OF SURFACE - continued

Restoration activities of those areas not necessary operation shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10. If oil is left in the pit overhead flagging will be installed.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced within numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerates, and shale deposits are extremely common to the area.

The geologic structure of the area that are visible are of the Uintah formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestones and younger Alluvial deposits from the Quarternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rain in the area is only 8 inches.

The Green River to the West of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Apparent use of the surface is open range grazing and the surface is owned by the federal government.

The topography of the Immediate Area (Topography Map "B")

Dunlap Federal #1 is located on a broken area on the North slope of what is known as the Rim Rock.

The topography of the general area is formed by the Blue Mountain Plateau and Green River to the North and White River and Han Plateau to the South.

The basin floor is interlaced within numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerates, and shale deposits are extremely common to the area.

The geologic structure of the area that are visible are of the Uintah formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestones and younger Alluvial deposits from the Quarternary Period.

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The topsoil in the area range from a light brownish-gray sandy clay (SM-ML) soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rain in the area is only 8 inches.

The Green River to the West of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Apparent use of the surface is open range grazing and the surface is owned by the federal government.

The topography of the Immediate Area (Topography Map "B")

Dunlap Federal #1 is located on a broken area on the North slope of what is known as the Rim Rock.

The majority of the drainages in the area around this location run in a Northerly direction into Cliff Creek which is a tributary to the Green River, and are non-perennial streams.

The vegetation in the immediate area surrounding the location site is predominately sagebrush and grasses. There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Clyde Aylesworth
P.O. Box 4935
Midland, Texas 79701

WEST RANGELY OPERATING COMPANY INCORPORATED

Dunlap Federal # 8

Section 17, T6S, R24E, S.L.B. & M.

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by West Rangely Operating Company Incorporated and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

Date

12 - 17 - 78

Clyde Aylesworth
Clyde Aylesworth

FROM: : DISTRICT GEOLOGIST ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-9825BOPERATOR: West Range Operating Co., Inc.WELL NO. #8LOCATION: NE 1/4 SW 1/4 SW 1/4 sec. 17, T. 6S., R. 24E., SLMUintah County, Utah

1. Operator predicted stratigraphy and predicted hydrocarbon zones are adequate? Yes,
If not, USGS predictions are:

2. Fresh water aquifers probable below surface casing? Unlikely

3. Other probable leasable minerals? No.

4. Are hazardous fluids or gases likely? No.

5. Are abnormal conditions of pressure or temperature likely? No.

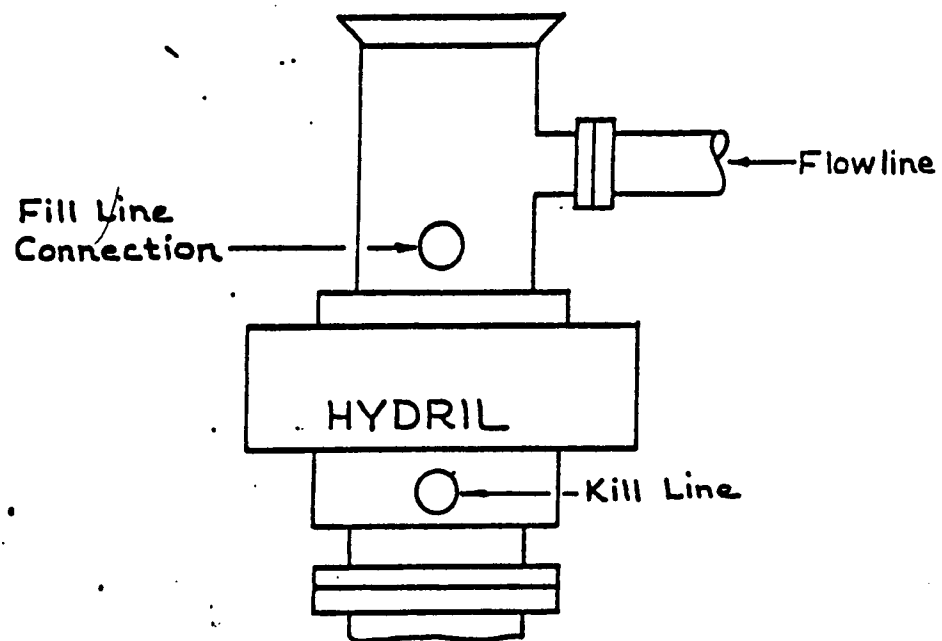
6. Will any strata penetrated need special mud, casing, or cementing beyond that proposed in the APD? No.

7. Is additional logging or sampling needed? No.

8. References - remarks: USGS Files, Salt Lake City, Utah

Is location within 2 miles of a KGS? No.

Signature: Donald C. AlfordDate: 12-22-78



REAGAN TORUS TYPE 'K'

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Carmack Drilling Co. Well No. 8
Location Sec. 17, T6S, R24E Lease No. U-9825B

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U.S. Geological Survey Area Office, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify this office and the Surface Management Agency at least 24 hours prior to commencing field operations to allow this office and/or the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: Cory Bodman
Office Phone: (801) 789-1362, Home Phone: _____
City: Vernal, State: Utah

The U.S. Geological Survey District Office address and contacts are:

Address: 8440 Federal Building, 125 South State St., Salt Lake City, UT 84138

Office Phone: (801) 524-5650

District Engineer E. W. Gynn

Home Phone: 582-7042

Asst. Dist. Engineer W. P. Martens

Home Phone: 466-2780

Asst. Dist. Engineer R. A. Henricks

Home Phone: 484-2294

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This application is valid for a period of one year from the date of approval. No extensions will be considered. If the application terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. _____

SUPPLEMENTAL STIPULATIONS OF APPROVAL CONTINUED

Carmack Drilling Co.
Well #8
Sec. 17-6S-24E
Uintah County
U-9825-B

Supplemental Stipulations:

1. No surface disturbance will be allowed except for the drilling of the hole.
2. All cuttings will be placed in a container and hauled away after the operation is completed.
3. All drilling waste must be contained in a mud tank type device.
4. A portable chemical toilet must be used for human waste.
5. All trash should be trucked off location and disposed of properly.
6. There will be no access road construction unless production is obtained.

RESUBMITTED

SUBMIT IN TRIPLICATE

(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-9825B
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Carmack Drilling Co. West Rangely Operating Company Incorporated		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 592-25 Rd., G.S.T., Co. 81501 P.O. Box 4935 Midland Texas 79701		8. FARM OR LEASE NAME Dunlap Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 866' FWL - 902' FSL Section 17, T6S, R24E, S.L.B. & M.		9. WELL NO. #8
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 Miles from Vernal, Utah		10. FIELD AND POOL, OR WILDCAT WILDCAT
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE 1280	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T6S, R24E, S.L.B & M.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 1000' Mancos	12. COUNTY OR PARISH Utah
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5300'	17. NO. OF ACRES ASSIGNED TO THIS WELL	
22. APPROX. DATE WORK WILL START* January 1979		13. STATE Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	24#	40'	Cement to surface
6 1/4"	4 1/2"	10 1/2	1000'	

*See attached sheets.

In the event this well does not encounter Hydro Carbons the following plugging procedure will be followed, 30 bags of cement in bottom, fill to bottom of the surface casing with cuttings and dirt from pit. Fill to the surface with cement install regulation dry hole marker.

In case production is established the drilling rig will be released to the location and another unit will be brought in to make production test, run casing, and install production equipment. At this time a Sundry Notice with surface use plan for production equipment and facilities will be submitted.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Cliff A. Glesner TITLE VIC pres. DATE 10-12-78
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY W. P. Martin TITLE ACTING DISTRICT ENGINEER DATE MAY 31 1979
CONDITIONS OF APPROVAL, IF ANY: _____

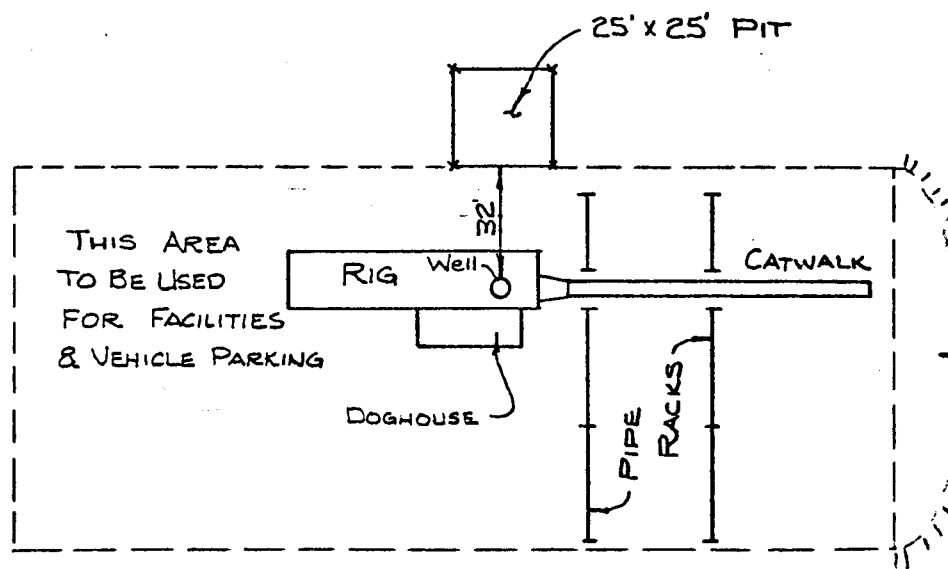
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

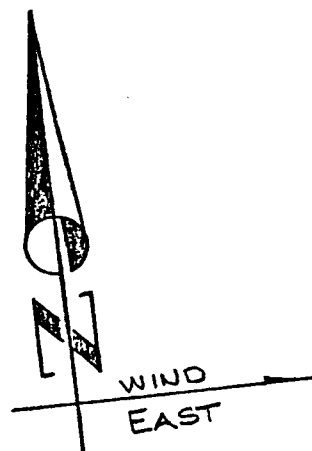
See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING
DRILLING AND COMPLETION APPROVED
SUBJECT TO ROYALTY (NTL-4)

Operator



WEST RANGELY OPERATING CO. INC.
RIG & PIT LAYOUT PLAT
DUNLAP FEDERAL # 8



TOPSOIL STOCKPILE
IF NECESSARY

SCALE 1" = 50'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U 9825 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Dunlap Federal

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., or BLK. AND
SURVEY OR AREA

Sec. 17 T 6S R24E SLBM

12. COUNTY OR PARISH 13. STATE

Uintah ; Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

West Rangely Operating Company, Inc.

3. ADDRESS OF OPERATOR

407 Kent St., Box 4935, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

866' FWL and 902' FSL SW SW Sec. 17 T 6S R 24E SLBM

1458 1200

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

Change operator

v

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

**All operating rights assigned to Carmack Drilling Company
592 25 Road
Grand Junction, CO 81501**

18. I hereby certify that the foregoing is true and correct

SIGNED

Dyke Hylesworth

TITLE

Vice President

DATE

May 16, 1979

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-9825B		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Carmack Drilling Company			7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR 592 25 Road, Grand Junction, Colorado 81501			8. FARM OR LEASE NAME Dunlap Federal		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1458' FWL - 1200' FSL, Section 17, T6S, R24E, S.L.B. & M. At proposed prod. zone			9. WELL NO. #8		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 miles from Vernal, Utah			10. FIELD AND POOL, OR WILDCAT		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T6S, R24E, S.L.B. & M.		
16. NO. OF ACRES IN LEASE 1280			12. COUNTY OR PARISH Uintah		
17. NO. OF ACRES ASSIGNED TO THIS WELL			13. STATE Utah		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000'			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5309'			22. APPROX. DATE WORK WILL START* 1 July 1979		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	23#	40'	Cement to surface
6 1/4"	4 1/2"	10 1/2#	1000'	

*See attached sheets.

In the event this well does not encounter Hydro Carbons the following plugging procedure will be followed, 30 bags of cement in bottom, fill to bottom of the surface casing with cuttings and dirt from pit. Fill to the surface with cement install regulation dry hole marker.

In case production is established the drilling rig will be released to the location and another unit will be brought in to make production test, run casing, and install production equipment. At this time a Sundry Notice with surface use plan for production equipment and facilities will be submitted.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Clyde Appleworth TITLE agent DATE 1 June 1979
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

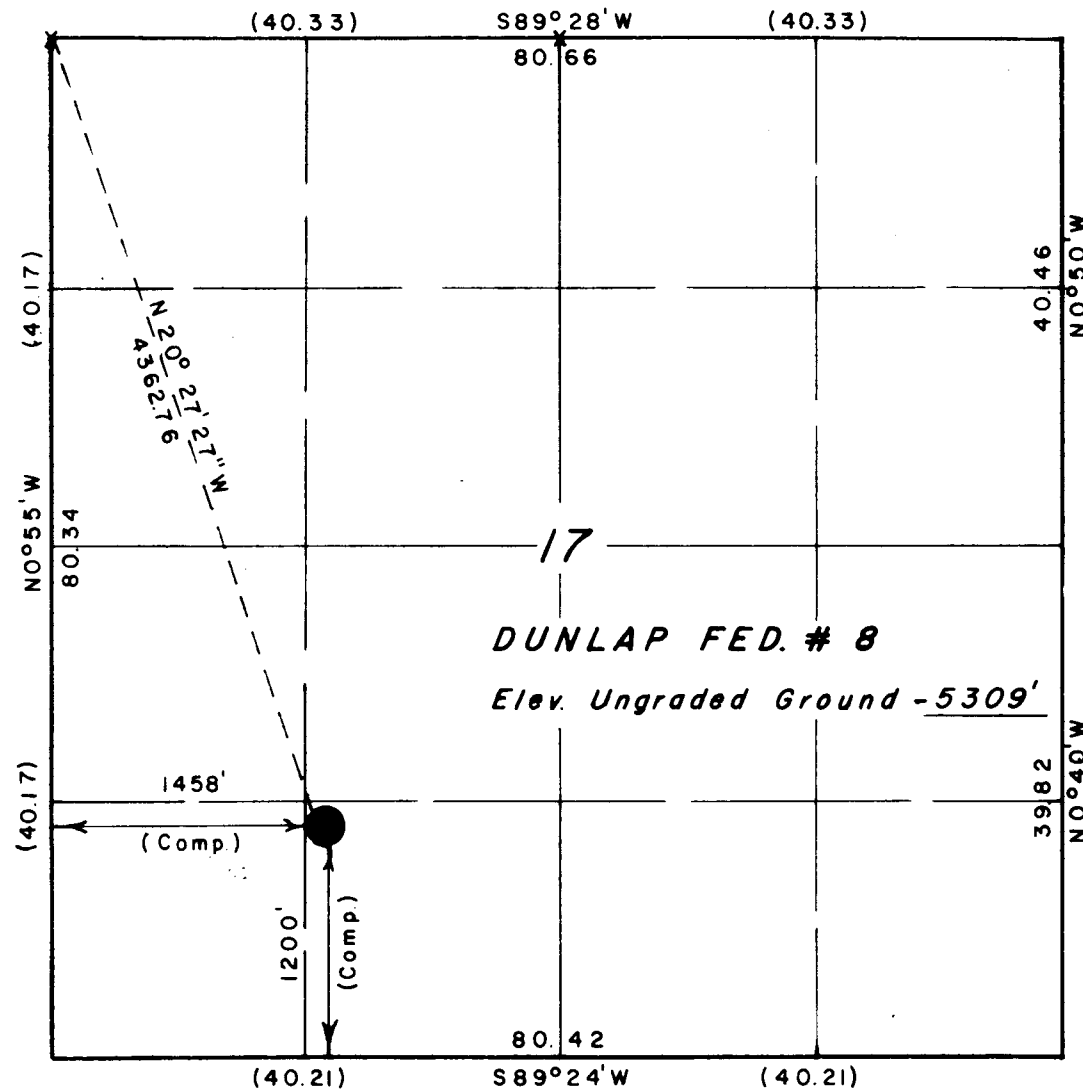
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

T 6 S, R 24 E, S. L. B. & M.

PROJECT
WEST RANGELY OPERATING CO. INC.

Well location, **DUNLAP FED. # 8**
located as shown in the SE 1/4 SW 1/4
Section 17, T 6 S, R 24 E, S. L. B. & M.
Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Gene Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10/18/78
PARTY S.S. M.S. J.M. S.M.	REFERENCES GLO Plat
WEATHER Clear & Warm	FILE WEST RANGELY

GEOLOGICAL CASING AND BOPE DATA

1. Surface Formation:

Mancos Shale

2. Estimated tops of important geological markers:

Mancos Shale - surface

3. Expected Mineral-bearing Formation:

Mancos Shale - 1000'

4. Proposed Casing Program:

Surface Casing - New 7" 20.0 40' and if needed production casing.

5. Blowout Preventor:

Reagan Torus - Type K - Tested to 3000 lbs.
with fill, kill and choke lines

6. Circulating Medium:

Air

7. Auxilliary Equipment:

Kelly Cock
Float at Bit
Sub on floor with full-opening valve to be stabbed into drill pipe
when Kelly is out of string

8. Testing, Logging, and Coring Procedures:

Cores - none planned
Tests - none planned
Logging - none planned

9. Anticipated Hazards:

No abnormal pressures or temperatures, hydrogen sulfide or other
drilling hazards are anticipated.

10. Anticipated starting date:

July 1, 1979

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: June 4, 1979

Operator: Carmack Drilling Co.

Well No: Dunlap Federal #8

Location: Sec. 17 T. 6S R. 24E County: Uintah

File Prepared: ☐

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

✓ API Number: 43-047-30589

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: M. J. Minder 6-11-79

Remarks:

Director: 

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

Surface Casing Change ☐
to _____

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In _____ Unit

Other:

☒ Letter Written/Approved

2 A

NELSON J. MARSHALL
Phone 789-0272

GENE STEWART
Phone 789-1795

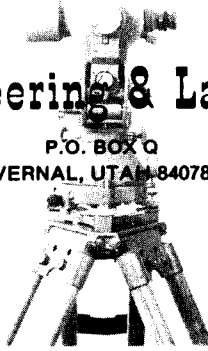
LAWRENCE C. KAY
Phone 789-1125

OFFICE LOCATION
85 SOUTH 200 EAST

PHONE 789-1017

Uintah Engineering & Land Surveying

P.O. BOX Q
VERNAL, UTAH 84078



June 1, 1979

Utah State Natural Resources Department
Oil, Gas, & Mining Division
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mike Mender

Dear Sir:

As consultants for Carmack Drilling Company, Uintah Engineering and Land Surveying respectfully requests a variance from the prescribed spacing requirements for the following well location:

Dunlap Federal #8
Section ~~36~~, T6S, R24E, S.L.B. & M.

17

In view of the fact that this is a seismic drilling operation and surface disturbance is not approved, careful selection of an acceptable site is necessary. This well location was placed, therefore, out of the proper spacing envelope because of topographic reasons.

The attached topographic map shows the location of the well within the section.

Very turly yours,

Michael Weber

Michael Weber
Office Manager

MW/dcp

Utah State Natural Resources
Oil, Gas and Mining Division
1588 West North Temple
Salt Lake City, Utah 84116

Attn: Mike Minder

With respect to the location of Dunlap Federal No. 8 test well in
Uintah County, this is to advise you that Carmack Drilling Company
owns or controls all land within a 660 foot radius of this location.

Carmack Drilling Company

By Chas. Aylesworth





SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MCINTYRE

June 12, 1979

CARMACK DRILLING COMPANY
592 25 ROAD
GRAND JUNCTION CO 81501

Re: Well No. Dunlap Federal #3, Sec. 7, T6S, R24E, Uintah County, Utah
Well No. Dunlap Federal #8, Sec. 17, T6S, R24E, Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Approval to drill this well is predicated on your application to drill an oil well, in which spacing under Rule C-3 states that there be not less than 1,000' between any oil wells or 4,960' between gas wells. The location you have chosen would permit drilling an oil well; however, it does not meet spacing requirements for a gas well. Therefore, production from this well is restricted to oil.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
HOME: 876-3001
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

CARMACK DRILLING COMPANY
JUNE 12, 1979
PAGE 2

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.


The API numbers assigned to the above referred to wells are as follows:

Well No. Dunlap Federal #3 - 43-047-30587

Well No. Dunlap Federal #8 - 43-047-30589

Yours very truly,

DIVISION OF OIL, GAS, AND MINING



Cleon B. Feight, Director

/lw

cc: U. S. Geological Survey

Enclosure

FILE IN QUADRUPPLICATE
FORM OGC-8-X



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Dunlap Federal No. 8
Operator: Carmack Drilling Company Address: 592 25 Road Grand Junction Colorado
Contractor: Uintah Basin Drilling Co Address: Roosevelt Utah
Location SE 1/4 SW 1/4; Sec. 17 T. 6 S. R. 24 E; Uintah County W

Water Sands:

	<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
	From-	To-	Flow Rate or Head	Fresh or Salty
1.	355	356	Trace	Fresh
2.				
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops: Mancos shall all the way

Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U 9825B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Dunlap Federal

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

17 T6s R24E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL ☐ GAS ☐
WELL WELL OTHER

2. NAME OF OPERATOR

Carmack Drilling Company

3. ADDRESS OF OPERATOR

592 25 rd Grand Junction CO 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
(See also space 17 below.)
At surface

866' FWL 982' FEL
1458 1300

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5300'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

V

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

No production obtained

Request permission to plug and abandon as follows:

Pump ³⁰⁵⁴ ~~100~~ of cement to bottom of hole. Fill to bottom of surface pipe with cuttings retained for that purpose. Fill surface pipe with cement and place dry hole marker. If any cuttings remain they will be smoothed to conform to surface contour.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Oct. 30, 1979

BY:

Frank M. Harnett
(See attached letter)

18. I hereby certify that the foregoing is true and correct

SIGNED

Charles A. Harnett

TITLE

Agent

DATE

Oct. 23 1979

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MCINTYRE

October 31, 1979

Carmack Drilling Company
592 25 Road
Grand Junction, Colorado 81501

Re: Dunlap Federal Wells, #1-#8
Uintah County, Utah

Attention: Mr. Clyde Aylesworth

Gentlemen:

Attached please find tentative approval for the plugging of the above referenced wells. This approval is contingent upon the plugging procedure being followed as outlined in your initial application for Permit to Drill. This program requires 30 sacks of cement to total depth and was approved with that stipulation. One-hundred feet of cement at the bottom of the hole does not meet that requirement.

If you have any questions, please contact me.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Frank M. Hamner/utmn

Frank M. Hamner
Chief Petroleum Engineer

FMH/btm

cc: USGS



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
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E. STEELE McINTYRE

February 5, 1980

Carmack Drilling Co.
592 - 25 Rd.
Grand Junction, Colo. 81501

RE: SEE ATTACHED SHEET FOR FURTHER
INFORMATION ON WELLS INVOLVED.

SECOND NOTICES

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,
DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
DIRECTOR

SHEET ATTACHMENT

Well No. Lansdale-Carmack #1-10
Sec. 10, T. 20S, R. 24E,
Grand County, Utah
SECOND NOTICE

Well No. State # 1-16
Sec. 16, T. 21S, R. 20E,
Grand County, Utah
THIRD NOTICE

Well No. Dunlap Federal #1
Sec. 8, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #2
Sec. 7, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #3
Sec. 7, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #4
Sec. 18, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #5
Sec. 17, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #6
Sec. 17, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #7
Sec. 17, T. 6S, R. 24E,
Uintah County, Utah

Well No. Dunlap Federal #8
Sec. 17, T. 6S, R. 24E,
Uintah County, Utah

March 7, 1980

West Rangleley Operating Inc.
P.O. Box 4935
Midland, Texas 79701

Re: See enclosed sheet for wells.

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING


JANICE TABISH
CLERK TYPIST

- (1) Well No. Dunlap Fed. #1
Sec. 8, T.6S, R. 24E.
Uintah County, Utah
- (2) Well No. Dunlap Fed. #2
Sec. 7, T. 6S, R. 24E.
Uintah County, Utah
- (3) Well No. Dunlap Fed. #3
Sec. 7, T.6S, R.24E.
Uintah County, Utah
- (4) Well No. Dunlap Fed. #4
Sec. 18, T. 6S, R. 24E.
Uintah County, Utah
- (5) Well No. Dunlap Fed. #5
Sec. 17, T. 6S, R. 24E.
Uintah County, Utah
- (6) Well No. Dunlap Fed. #6
Sec. 17, T. 6S, R. 24E.
Uintah County, Utah
- (7) Well No. Dunlap Fed. #7
Sec. 17, T. 6S, R. 24E.
Uintah County, Utah
- (8) Well No. Dunlap Fed. #8
Sec. 17, T. 6S, R. 24E.
Uintah County, Utah

UTAH

UINTAH

(MD)

WILDCAT

HOTLINE Energy Reports

A DRINKER'S ENERGY DATA COMPANY

1050 17TH STREET, SUITE 2550
DENVER, COLORADO 80265
303-623-3282

Historical Well 10/28/79

I-17

24E - 17

ee sw

SL

Comp: 7/ 1/79 P&A

Oper: CARMACK DRILLING CO

API# 43-047-30589

Well: DUNLAP-FEDERAL 8

H# 103444

Permit: 6/11/79

Spud: 6/14/79 TD: 355

Loc: 1200 fsl 1458 fwl

Elev: 5309 GR

F.Test: 1000 Mancos

Con: Campbell Drilling Co

Hotline Scouting

~~Show~~ Trace fresh wtr 355-356. Some slight oil & gas shows.Journl 6/11/79 (operator changed from West Rangely Operating) 7/11/79 surface
pipe set. 10/19/79 Prep to P&A.

SUBMIT IN DUPLICATE*

STATE OF UTAH

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Carmack Drilling Company

3. ADDRESS OF OPERATOR

592 25 road Grand Junction Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 866' FWL 982' FEL

At top prod. interval reported below 1458 1300

At total depth

14. PERMIT NO.

DATE ISSUED

43-047-30589 6-11-79

5. LEASE DESIGNATION AND SERIAL NO.

U 9825B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Dunlap Federal

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

17 T6s R24E

12. COUNTY OR PARISH

Mintah

13. STATE

Utah

15. DATE SPUDDED

7 25 79

16. DATE T.D. REACHED

7 27 79

17. DATE COMPL. (Ready to prod.)

P & A

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

5300'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

360'

21. PLUG, BACK T.D., MD & TVD

N/A

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

P & A tested Mancos

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

none

27. WAS WELL CORED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"		40	9"	cemented to surface	none
open hole			4 3/4"		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
	N/A						

31. PERFORATION RECORD (Interval, size and number)

N/A

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	

33.* PRODUCTION

DATE FIRST PRODUCTION P & A PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

abandoned

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Clyde Aylesworth

TITLE

agent

DATE

10-1-80

*(See Instructions and Spaces for Additional Data on Reverse Side)



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

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CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MCINTYRE

October 7, 1980

Carmack Drilling Company
592 - 25 Road
Grand Junction, Colorado 81501

RE: SEE ATTACHED SHEET FOR FURTHER
INFORMATION ON WELLS INVOLVED.

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells are due and has not been filed with this office as required by our rules and regulations.

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Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Barbara Hill

BARBARA HILL
CLERK TYPIST

/bjh

Enclosures: Forms

*Will send "Well Completion Report"
as Wes Dunlap stated (our phone call on 4/8/81)*

WELL COMPLETION REPORT DUE
THIRD REQUEST

- (1) Well No. Dunlap Federal #1
Sec. 8, T. 6S, R. 24E.,
Uintah County, Utah
- (2) Well No. Dunlap Federal #2
Sec. 7, T. 6S, R. 24E.,
Uintah County, Utah
- (3) Well No. Dunlap Federal #3
Sec. 7, T. 6S, R. 24E.,
Uintah County, Utah
- (4) Well No. Dunlap Federal #4
Sec. 18, T. 6S, R. 24E.,
Uintah County, Utah
- (5) Well No. Dunlap Federal #5
Sec. 17, T. 6S, R. 24E.,
Uintah County, Utah
- (6) Well No. Dunlap Federal #6
Sec. 17, T. 6S, R. 24E.,
Uintah County, Utah
- (7) Well No. Dunlap Federal #7
Sec. 17, T. 6S, R. 24E.,
Uintah County, Utah
- (8) Well No. Dunlap Federal #8
Sec. 17, T. 6S, R. 24E.,
Uintah County, Utah

FOURTH REQUEST - WELL COMPLETION REPORT DUE

Well No. Lansdale-Carmack 1-10
Sec. 10, T. 20S, R. 24E.,
Grand County, Utah

FIFTH REQUEST - WELL COMPLETION REPORT DUE

Well No. State 1-16
Sec. 16, T. 21S, R. 20E.,
Grand County, Utah